Hiroyuki Noji

List of Publications by Year
in descending order

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213 papers	14,624 citations	34076 52 h-index	20343 116 g-index

219 all docs	219 docs citations	219 times ranked	10436 citing authors

#	Article	IF	Citations
1	A microreactor sealing method using adhesive tape for digital bioassays. Lab on A Chip, 2022, , .	3.1	0
2	Ultrafast water permeation through nanochannels with a densely fluorous interior surface. Science, 2022, 376, 738-743.	6.0	82
3	How Does F1-ATPase Generate Torque?: Analysis From Cryo-Electron Microscopy and Rotational Catalysis of Thermophilic F1. Frontiers in Microbiology, 2022, 13, .	1.5	11
4	Supramolecular Mechanosensitive Potassium Channel Formed by Fluorinated Amphiphilic Cyclophane. Journal of the American Chemical Society, 2022, 144, 11802-11809.	6.6	17
5	Imidazoliumâ€based Multiblock Amphiphile as Transmembrane Anion Transporter. Chemistry - an Asian Journal, 2021, 16, 147-157.	1.7	9
6	Multiparameter single-particle motion analysis for homogeneous digital immunoassay. Analyst, The, 2021, 146, 1303-1310.	1.7	5
7	Synthetic Ion Channel Formed by Multiblock Amphiphile with Anisotropic Dual-Stimuli-Responsiveness. Journal of the American Chemical Society, 2021, 143, 1348-1355.	6.6	23
8	Multidimensional Digital Bioassay Platform Based on an Air-Sealed Femtoliter Reactor Array Device. Analytical Chemistry, 2021, 93, 5494-5502.	3.2	16
9	Kinetic analysis of the inhibition mechanism of bovine mitochondrial F1-ATPase inhibitory protein using biochemical assay. Journal of Biochemistry, 2021, 170, 79-87.	0.9	7
10	Elucidation and control of low and high active populations of alkaline phosphatase molecules for quantitative digital bioassay. Protein Science, 2021, 30, 1628-1639.	3.1	16
11	Amplification of over 100 kbp DNA from Single Template Molecules in Femtoliter Droplets. ACS Synthetic Biology, 2021, 10, 2179-2186.	1.9	8
12	The six steps of the complete F1-ATPase rotary catalytic cycle. Nature Communications, 2021, 12, 4690.	5.8	50
13	Single Cell Array Enclosed with a Photodegradable Hydrogel in Microwells for Image-Based Cell Classification and Selective Photorelease of Cells. ACS Applied Bio Materials, 2020, 3, 5887-5895.	2.3	8
14	The 3 Ã— 120Â° rotary mechanism of Paracoccus denitrificans F ₁ -ATPase is different from that of the bacterial and mitochondrial F ₁ -ATPases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29647-29657.	3.3	19
15	Monitoring and mathematical modeling of mitochondrial ATP in myotubes at singleâ€cell level reveals two distinct population with different kinetics. Quantitative Biology, 2020, 8, 228-237.	0.3	4
16	Monodisperse Liposomes with Femtoliter Volume Enable Quantitative Digital Bioassays of Membrane Transporters and Cell-Free Gene Expression. ACS Nano, 2020, 14, 11700-11711.	7.3	17
17	Rotary catalysis of bovine mitochondrial F ₁ -ATPase studied by single-molecule experiments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1447-1456.	3.3	26
18	A synthetic ion channel with anisotropic ligand response. Nature Communications, 2020, 11, 2924.	5.8	36

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19	Use of Ghost Cytometry to Differentiate Cells with Similar Gross Morphologic Characteristics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 415-422.	1.1	6
20	Multiplexed homogeneous digital immunoassay based on single-particle motion analysis. Lab on A Chip, 2020, 20, 2113-2121.	3.1	18
21	Multiplexed single-molecule enzyme activity analysis for counting disease-related proteins in biological samples. Science Advances, 2020, 6, eaay0888.	4.7	44
22	Correlation between the numbers of rotation steps in the ATPase and proton-conducting domains of F- and V-ATPases. Biophysical Reviews, 2020, 12, 303-307.	1.5	11
23	Mobile imaging platform for digital influenza virus counting. Lab on A Chip, 2019, 19, 2678-2687.	3.1	34
24	Wash- and Amplification-Free Digital Immunoassay Based on Single-Particle Motion Analysis. ACS Nano, 2019, 13, 13116-13126.	7.3	45
25	Revealing the Metabolic Activity of Persisters in Mycobacteria by Single-Cell D₂O Raman Imaging Spectroscopy. Analytical Chemistry, 2019, 91, 15171-15178.	3.2	23
26	Accurate high-throughput screening based on digital protein synthesis in a massively parallel femtoliter droplet array. Science Advances, 2019, 5, eaav8185.	4.7	48
27	Antibody-free digital influenza virus counting based on neuraminidase activity. Scientific Reports, 2019, 9, 1067.	1.6	19
28	Editorial: Special issue of Biophysical Reviews dedicated to the joint 10th Asian Biophysics Association Symposium and 42nd Australian Society for Biophysics Meeting, Melbourne, Australia, December 2â€“6, 2018. Biophysical Reviews, 2019, 11, 245-247.	1.5	4
29	The Asian Biophysics Associationâ€”supporting biophysics in the greater Asia region. Biophysical Reviews, 2019, 11, 251-252.	1.5	2
30	Design of Sealable Custom-Shaped Cell Mimicries Based on Self-Assembled Monolayers on CYTOP Polymer. ACS Applied Materials & Interfaces, 2019, 11, 21372-21380.	4.0	8
31	Introduction to the Biophysical Society of Japan (BSJ). Biophysical Reviews, 2019, 11, 265-266.	1.5	1
32	Regeneration of Escherichia coli Giant Protoplasts to Their Original Form. Life, 2019, 9, 24.	1.1	2
33	Osmolyte-Enhanced Protein Synthesis Activity of a Reconstituted Translation System. ACS Synthetic Biology, 2019, 8, 557-567.	1.9	8
34	The 19th IUPAB Congress Report. Seibutsu Butsuri, 2019, 59, 162-163.	0.0	0
35	Reports on the 10th ABA Symposium. Seibutsu Butsuri, 2019, 59, 219-221.	0.0	0
36	Response to Comment on â€œGhost cytometryâ€• Science, 2019, 364, .	6.0	3

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37	Effects of non-equilibrium angle fluctuation on F₁-ATPase kinetics induced by temperature increase. Physical Chemistry Chemical Physics, 2018, 20, 1872-1880.	1.3	5
38	A Transient Rise in Free Mg2+ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. Current Biology, 2018, 28, 444-451.e6.	1.8	116
39	Essential Role of the Îµ Subunit for Reversible Chemo-Mechanical Coupling in F1-ATPase. Biophysical Journal, 2018, 114, 178-187.	0.2	6
40	Single-molecule analysis of phospholipid scrambling by TMEM16F. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3066-3071.	3.3	68
41	Rate constants, processivity, and productive binding ratio of chitinase A revealed by single-molecule analysis. Physical Chemistry Chemical Physics, 2018, 20, 3010-3018.	1.3	24
42	Single-Molecule Analysis of Membrane Transporter Activity by Means of a Microsystem. Methods in Molecular Biology, 2018, 1700, 321-330.	0.4	3
43	Digital enzyme assay using attoliter droplet array. Analyst, The, 2018, 143, 4923-4929.	1.7	27
44	Automatic Quantitative Segmentation of Myotubes Reveals Single-cell Dynamics of S6 Kinase Activation. Cell Structure and Function, 2018, 43, 153-169.	0.5	2
45	Hybrid cell reactor system from Escherichia coli protoplast cells and arrayed lipid bilayer chamber device. Scientific Reports, 2018, 8, 11757.	1.6	7
46	High-throughput single-molecule bioassay using micro-reactor arrays with a concentration gradient of target molecules. Lab on A Chip, 2018, 18, 2849-2853.	3.1	16
47	Ghost cytometry. Science, 2018, 360, 1246-1251.	6.0	165
48	Mechano-Sensitive Synthetic Ion Channels. Journal of the American Chemical Society, 2017, 139, 18016-18023.	6.6	65
49	Direct Measurement of Single-Molecule Adenosine Triphosphatase Hydrolysis Dynamics. ACS Nano, 2017, 11, 12789-12795.	7.3	20
50	Catalytic robustness and torque generation of the F1-ATPase. Biophysical Reviews, 2017, 9, 103-118.	1.5	48
51	Digital Bioassays: Theory, Applications, and Perspectives. Analytical Chemistry, 2017, 89, 92-101.	3.2	100
52	A Microfluidic Channel Method for Rapid Drug-Susceptibility Testing of Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0148797.	1.1	54
53	Direct observation of intermediate states during the stepping motion of kinesin-1. Nature Chemical Biology, 2016, 12, 290-297.	3.9	119
54	Direct real-time detection of single proteins using silicon nanowire-based electrical circuits. Nanoscale, 2016, 8, 16172-16176.	2.8	40

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55	Rotation of artificial rotor axles in rotary molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11214-11219.	3.3	13
56	Single-molecule Imaging Analysis of Binding, Processive Movement, and Dissociation of Cellobiohydrolase Trichoderma reesei Cel6A and Its Domains on Crystalline Cellulose. Journal of Biological Chemistry, 2016, 291, 22404-22413.	1.6	45
57	Biophysical Characterization of a Thermoalkaliphilic Molecular Motor with a High Stepping Torque Gives Insight into Evolutionary ATP Synthase Adaptation. Journal of Biological Chemistry, 2016, 291, 23965-23977.	1.6	21
58	Novel Nano-Device to Measure Voltage-Driven Membrane Transporter Activity. IEEE Nanotechnology Magazine, 2016, 15, 70-73.	1.1	5
59	Biological Nanomotors with a Revolution, Linear, or Rotation Motion Mechanism. Microbiology and Molecular Biology Reviews, 2016, 80, 161-186.	2.9	47
60	Comprehensive chemical secretory measurement of single cells trapped in a micro-droplet array with mass spectrometry. RSC Advances, 2015, 5, 16968-16971.	1.7	22
61	Giant Acceleration of Diffusion Observed in a Single-Molecule Experiment on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:mtext>â”</mml:m Physical Review Letters, 2015, 114, 248101.	2.9	32
62	Digital Biology. Seibutsu Butsuri, 2015, 55, 196-199.	0.0	0
63	ATP hydrolysis assists phosphate release and promotes reaction ordering in F1-ATPase. Nature Communications, 2015, 6, 10223.	5.8	23
64	High-Speed Angle-Resolved Imaging of a Single Gold Nanorod with Microsecond Temporal Resolution and One-Degree Angle Precision. Analytical Chemistry, 2015, 87, 2079-2086.	3.2	29
65	Attolitre-sized lipid bilayer chamber array for rapid detection of single transporters. Scientific Reports, 2015, 5, 11025.	1.6	30
66	A single-molecule digital enzyme assay using alkaline phosphatase with a cumarin-based fluorogenic substrate. Analyst, The, 2015, 140, 5065-5073.	1.7	45
67	Torque Transmission Mechanism via DELSEED Loop of F1-ATPase. Biophysical Journal, 2015, 108, 1144-1152.	0.2	15
68	Effects of an ATP analogue, adenosine 5â€²-[Î±-thio]-triphosphate, on F1-ATPase rotary catalysis, torque generation, and inhibited intermediated formation. Biochemical and Biophysical Research Communications, 2015, 458, 515-519.	1.0	2
69	A CMOS image sensor with stacked photodiodes for lensless observation system of digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2014, 53, 04EL02.	0.8	18
70	Glucose-stimulated Single Pancreatic Islets Sustain Increased Cytosolic ATP Levels during Initial Ca2+ Influx and Subsequent Ca2+ Oscillations. Journal of Biological Chemistry, 2014, 289, 2205-2216.	1.6	43
71	Light-triggered vesicle formation: important factors for generation of vesicles and possible applications. Pure and Applied Chemistry, 2014, 86, 1259-1267.	0.9	5
72	Grafting synthetic transmembrane units to the engineered low-toxicity Î±-hemolysin to restore its hemolytic activity. Molecular BioSystems, 2014, 10, 3199-3206.	2.9	1

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73	Timing of inorganic phosphate release modulates the catalytic activity of ATP-driven rotary motor protein. Nature Communications, 2014, 5, 3486.	5.8	47
74	Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy. Angewandte Chemie, 2014, 126, 10246-10249.	1.6	6
75	RÃ¼cktitelbild: Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy (Angew. Chem. 38/2014). Angewandte Chemie, 2014, 126, 10418-10418.	1.6	0
76	Torque Generation of Enterococcus hirae V-ATPase. Journal of Biological Chemistry, 2014, 289, 31212-31223.	1.6	27
77	Thermodynamic analysis of <scp>F</scp>₁â€<scp>ATP</scp>ase rotary catalysis using highâ€speed imaging. Protein Science, 2014, 23, 1773-1779.	3.1	11
78	Arrayed lipid bilayer chambers allow single-molecule analysis of membrane transporter activity. Nature Communications, 2014, 5, 4519.	5.8	101
79	Single-molecule Imaging Analysis of Elementary Reaction Steps of Trichoderma reesei Cellobiohydrolase I (Cel7A) Hydrolyzing Crystalline Cellulose Iβ and Iα. Journal of Biological Chemistry, 2014, 289, 14056-14065.	1.6	50
80	Evaluation of intramitochondrial ATP levels identifies G0/G1 switch gene 2 as a positive regulator of oxidative phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 273-278.	3.3	101
81	Reversible Ion Transportation Switch by a Ligand-Gated Synthetic Supramolecular Ion Channel. Journal of the American Chemical Society, 2014, 136, 15584-15595.	6.6	65
82	Quantifying genetically inserted fluorescent protein in single iPS cells to monitor Nanog expression using electroactive microchamber arrays. Lab on A Chip, 2014, 14, 730-736.	3.1	14
83	Torque Generation Mechanism of F1-ATPase upon NTP Binding. Biophysical Journal, 2014, 107, 156-164.	0.2	14
84	Robustness of the Rotary Catalysis Mechanism of F1-ATPase. Journal of Biological Chemistry, 2014, 289, 19331-19340.	1.6	10
85	F-subunit reinforces torque generation in V-ATPase. European Biophysics Journal, 2014, 43, 415-422.	1.2	9
86	2P290 Single particle detection of influenza virus by micro droplet array(26. Measurements,Poster,The) Tj ETQq0 0 0 rgBT /Overlock 10	0.0	0
87	3P265 Toward reproduction of a bacterium from hybrid chamber cells(20. Origin of life &) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Butsuri, 2014, 54, S293.	0.0	0
88	3P321 Development of enzyme screening system for directed evolution based on enzymic activity(28.) Tj ETQq0 0 0 rgBT /Overlock 10 Butsuri, 2014, 54, S302.	0.0	0
89	Characterization of the temperature-sensitive reaction of F1-ATPase by using single-molecule manipulation. Scientific Reports, 2014, 4, 4962.	1.6	12
90	High-throughput formation of lipid bilayer membrane arrays with an asymmetric lipid composition. Scientific Reports, 2014, 4, 7076.	1.6	30

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91	Diversity in ATP concentrations in a single bacterial cell population revealed by quantitative single-cell imaging. Scientific Reports, 2014, 4, 6522.	1.6	293
92	3P287 Detection and activity measurement of single molecule alkaline phosphatase with femtoliter droplet array(26. Measurements,Poster,The 52nd Annual Meeting of the Biophysical Society of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 69	0.0	0
93	A Short Review on the 18th International Biophysics Congress (IUPAB). Seibutsu Butsuri, 2014, 54, 332-334.	0.0	0
94	In Vivo Fluorescent Adenosine 5â€²-Triphosphate (ATP) Imaging of Drosophila melanogaster and Caenorhabditis elegans by Using a Genetically Encoded Fluorescent ATP Biosensor Optimized for Low Temperatures. Analytical Chemistry, 2013, 85, 7889-7896.	3.2	103
95	Single-Molecule Analysis of the Rotation of F1-ATPase under High Hydrostatic Pressure. Biophysical Journal, 2013, 105, 1635-1642.	0.2	15
96	Chemomechanical coupling mechanism of F₁â€ATPase: Catalysis and torque generation. FEBS Letters, 2013, 587, 1030-1035.	1.3	37
97	Catalysis-Enhancement via Rotary Fluctuation of F1-ATPase. Biophysical Journal, 2013, 105, 2385-2391.	0.2	24
98	Design of a large-scale femtoliter droplet array for single-cell analysis of drug-tolerant and drug-resistant bacteria. Frontiers in Microbiology, 2013, 4, 300.	1.5	38
99	Basic Properties of Rotary Dynamics of the Molecular Motor Enterococcus hirae V1-ATPase. Journal of Biological Chemistry, 2013, 288, 32700-32707.	1.6	51
100	Single-molecule Analysis of F0F1-ATP Synthase Inhibited by N,N-Dicyclohexylcarbodiimide. Journal of Biological Chemistry, 2013, 288, 25717-25726.	1.6	31
101	Mechanical Modulation of ATP-binding Affinity of V1-ATPase. Journal of Biological Chemistry, 2013, 288, 619-623.	1.6	6
102	2P160 Single-Molecular Measurement of a Synthetic Molecular Bearing(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S185.	0.0	0
103	3P170 F-subunit reinforces torque generation in V-ATPase(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S240.	0.0	0
104	2P167 Single molecule observation of F_oF_1-ATP synthase in the supported lipid membrane(11.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
105	3P221 Lipid bilayer chamber array system for massive measurement of transporter activity(13D.) Tj ETQq1 1 0.784314 rgBT /Overlock	0.0	0
106	3P222 NanoCell, Attoliter Chamber Array for Single-Molecule Measurement of Membrane Transporters(13D. Biological & Artifical membrane: Transport,Poster). Seibutsu Butsuri, 2013, 53, S248.	0.0	0
107	Chemomechanical coupling of F₁-ATPase under hydrolysis conditions. Biophysics (Nagoya-shi, Japan), 2012, 8, 73-78.	0.4	2
108	Winding single-molecule double-stranded DNA on a nanometer-sized reel. Nucleic Acids Research, 2012, 40, e151-e151.	6.5	12

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109	Principal Role of the Arginine Finger in Rotary Catalysis of F1-ATPase. Journal of Biological Chemistry, 2012, 287, 15134-15142.	1.6	37
110	Single-molecule Analysis of Inhibitory Pausing States of V1-ATPase. Journal of Biological Chemistry, 2012, 287, 28327-28335.	1.6	9
111	Changes in Cytosolic ATP Levels and Intracellular Morphology during Bacteria-Induced Hypersensitive Cell Death as Revealed by Real-Time Fluorescence Microscopy Imaging. Plant and Cell Physiology, 2012, 53, 1768-1775.	1.5	29
112	3PT103 Bending stiffness of double-stranded DNA measured by winding single-molecule on a nanometer-sized reel(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S157-S158.	0.0	0
113	3A0924 Detection of rotation of F1-ATPase using high-speed orientational detection of gold nanorod(Molecular Motors III:F1 ATPase and Mycoplasma,Oral Presentation,The 50th Annual Meeting) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
114	3A0948 Single Molecule Analysis of Inhibitory Pausing States of V_1-ATPase(Molecular Motors III:F1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0
115	3A1010 The role of DELSEED loop in torque-transmission of F_1-ATPase(Molecular Motors III:F1 ATPase) Tj ETQq1 1 0.784314 rgBT /O Seibutsu Butsuri, 2012, 52, S56.	0.0	0
116	1PS033 Direct observation of H^+-driven rotation of F_0F_1-ATP synthase(The 50th Annual Meeting of) Tj ETQq0 0 0 rgBT /Overlock 10	0.0	0
117	A single-cell drug efflux assay in bacteria by using a directly accessible femtoliter droplet array. Lab on A Chip, 2012, 12, 3923.	3.1	48
118	Ion Permeation by a Folded Multiblock Amphiphilic Oligomer Achieved by Hierarchical Construction of Self-Assembled Nanopores. Journal of the American Chemical Society, 2012, 134, 19788-19794.	6.6	54
119	Large-scale femtoliter droplet array for digital counting of single biomolecules. Lab on A Chip, 2012, 12, 4986.	3.1	185
120	Role of the DELSEED Loop in Torque Transmission of F1-ATPase. Biophysical Journal, 2012, 103, 970-978.	0.2	47
121	Direct Observation of Rotary Catalysis of Rotorless F1-ATPase by High-Speed Atomic Force Microscopy. Biophysical Journal, 2012, 102, 600a.	0.2	0
122	Label-Free Single-Particle Imaging of the Influenza Virus by Objective-Type Total Internal Reflection Dark-Field Microscopy. PLoS ONE, 2012, 7, e49208.	1.1	38
123	A Microfluidic Device for Simple and Rapid Evaluation of Multidrug Efflux Pump Inhibitors. Frontiers in Microbiology, 2012, 3, 40.	1.5	21
124	Molecular Mechanism of ATP Hydrolysis in F₁-ATPase Revealed by Molecular Simulations and Single-Molecule Observations. Journal of the American Chemical Society, 2012, 134, 8447-8454.	6.6	95
125	Mechanical modulation of catalytic power on F1-ATPase. Nature Chemical Biology, 2012, 8, 86-92.	3.9	94
126	MRT letter: Expression of ATP sensor protein in Caenorhabditis elegans. Microscopy Research and Technique, 2012, 75, 15-19.	1.2	9

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127	New Understanding of Chemomechanical Coupling Mechanism of F1. Seibutsu Butsuri, 2012, 52, 014-017.	0.0	0
128	Mechanochemistry of F1 motor protein. Chemical Science, 2011, 2, 2086.	3.7	10
129	Ca²⁺ Regulation of Mitochondrial ATP Synthesis Visualized at the Single Cell Level. ACS Chemical Biology, 2011, 6, 709-715.	1.6	140
130	Structural Fluctuation and Catalytic Function of F1-ATPase. Biophysical Journal, 2011, 100, 226a.	0.2	0
131	1SM-03 Real-Time Single-Molecular Measurement of Artificial Molecular Rotor(1SM Interdisciplinary) Tj ETQq1 1 0.784314 rgBT /Over	0.0	0
132	Evaluation of Multidrug Efflux Pump Inhibitors by a New Method Using Microfluidic Channels. PLoS ONE, 2011, 6, e18547.	1.1	95
133	1C1324 Flexural rigidity of dsDNA measured by winding single molecule on a nanometer size bearing(Nucleic acid,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S34.	0.0	0
134	1L1424 P10 1YE1115 Key mechanism for high efficiency and reversibility of chemomechanical coupling in F_1-ATPase revealed by single-molecule manipulation(Molecular motor 1,Early Research in Biophysics) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.0	0
135	1L1336 Detection of rotaton of F1-ATPase using high-speed orientational detection of gold nanorod(Molecular motor 1,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S60.	0.0	0
136	1L1512 Two Pauses of V_1-ATPase during Catalysis(Molecular motor 1,The 49th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10	0.0	0
137	High-Speed Atomic Force Microscopy Reveals Rotary Catalysis of Rotorless F ₁ -ATPase. Science, 2011, 333, 755-758.	6.0	420
138	Rotation and structure of FoF1-ATP synthase. Journal of Biochemistry, 2011, 149, 655-664.	0.9	184
139	Resolving stepping rotation in Thermus thermophilus H+-ATPase/synthase with an essentially drag-free probe. Nature Communications, 2011, 2, 233.	5.8	57
140	Stiffness of Î³ subunit of F1-ATPase. European Biophysics Journal, 2010, 39, 1589-1596.	1.2	38
141	Phosphate release in F1-ATPase catalytic cycle follows ADP release. Nature Chemical Biology, 2010, 6, 814-820.	3.9	146
142	Fluctuation Theorem Applied to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">F</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-ATPase. Physical Review Letters, 2010, 104, 218103.	2.9	146
143	Measurement of the Conformational State of F1-ATPase by Single-Molecule Rotation. Methods in Enzymology, 2010, 475, 279-296.	0.4	1
144	Simple Dark-Field Microscopy with Nanometer Spatial Precision and Microsecond Temporal Resolution. Biophysical Journal, 2010, 98, 2014-2023.	0.2	150

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145	Reversible Dimerization of Aequorea victoria Fluorescent Proteins Increases the Dynamic Range of FRET-Based Indicators. ACS Chemical Biology, 2010, 5, 215-222.	1.6	99
146	Simultaneous Optical and Electrical Single Channel Recordings on a PEG Glass. Langmuir, 2010, 26, 8540-8543.	1.6	5
147	A single-molecule enzymatic assay in a directly accessible femtoliter droplet array. Lab on A Chip, 2010, 10, 3355.	3.1	186
148	2P175 Application of Simple Dark-Field Microscopy with High spatiotemporal resolution(The 48th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
149	3P345 Attempt to reconstitute a bacterium in the micro fluidic device.(Miscellaneous topics,The 48th) Tj ETQq1 1 0.784314 rgBT /Over	0.0	0
150	Single-biomolecule observation with micro one-way valves for rapid buffer exchange. Journal of Applied Physics, 2009, 105, 102016.	1.1	2
151	Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15651-15656.	3.3	884
152	Single-molecule Study on the Temperature-sensitive Reaction of F1-ATPase with a Hybrid F1 Carrying a Single Î²(E190D). Journal of Biological Chemistry, 2009, 284, 23169-23176.	1.6	23
153	Mechanism of Inhibition by C-terminal Î±-Helices of the Ïµ Subunit of Escherichia coli FoF1-ATP Synthase. Journal of Biological Chemistry, 2009, 284, 17457-17464.	1.6	77
154	Acceleration of the ATPâ€binding rate of F₁â€ATPase by forcible forward rotation. FEBS Letters, 2009, 583, 3187-3191.	1.3	25
155	Visualization of cargo concentration by COPII minimal machinery in a planar lipid membrane. EMBO Journal, 2009, 28, 3279-3289.	3.5	80
156	Sequential processing from cell lysis to protein assay on a chip enabling the optimization of an F1-ATPase single molecule assay condition. Lab on A Chip, 2009, 9, 3567.	3.1	15
157	Loop-mediated isothermal amplification of a single DNA molecule in polyacrylamide gel-based microchamber. Biomedical Microdevices, 2008, 10, 539-546.	1.4	45
158	Highly sensitive restriction enzyme assay and analysis: a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2423-2432.	1.9	15
159	Thermally Responsive Supramolecular Nanomeshes for On/Off Switching of the Rotary Motion of F₁â€ATPase at the Singleâ€Molecule Level. Chemistry - A European Journal, 2008, 14, 1891-1896.	1.7	30
160	Photo Gelâ€“Sol/Solâ€“Gel Transition and Its Patterning of a Supramolecular Hydrogel as Stimuliâ€Responsive Biomaterials. Chemistry - A European Journal, 2008, 14, 3977-3986.	1.7	208
161	Temperatureâ€sensitive reaction intermediate of F₁â€ATPase. EMBO Reports, 2008, 9, 84-90.	2.0	46
162	Lipid Bilayer Microarray for Parallel Recording of Transmembrane Ion Currents. Analytical Chemistry, 2008, 80, 328-332.	3.2	101

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163	Correlation between the conformational states of F ₁ -ATPase as determined from its crystal structure and single-molecule rotation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20722-20727.	3.3	71
164	3P-325 Spatio-temporal dynamics of intracellular ATP during apoptosis revealed by a genetically encoded fluorescent ATP indicator(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S177.	0.0	0
165	A Cell Lysis and Protein Purification - Single Molecule Assay Devices for Evaluation of Genetically Engineered Proteins. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 167-175.	0.0	0
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